RCRA FACILITY ASSESSMENT EVALUATION

PRELIMINARY REVIEW, VISUAL SITE INSPECTION AND SAMPLING VISIT

Rogism VI. Technical Compliance Section

FACILITY'S MANE(S): GNB Batteries	, Inc.
EPA ID NURBER: TXDGG6451090	
ADDRESS: P.O. Box 250 Frisco, Ye	
LCCATION: 7471 South 5th Street	Frisco, Texas
DATE OF INSPECTION: 10/8/87	enuteratine
DATE OF SAMPLING VISIT: 10/8/87	SY COMPUCTED BY: TWC
SITE DESCRIPTION: Lead battery re	cycling plant
PREPARED BY: TWC	DATE PREPARED: 12/1/87
	DATE REVIEWED: 12/28/87
ANTICIPATED DRAFT PERRIT DATE: 1	2/30/87
FACILITY STATUS: Active LD	
	at this facility: May 9, 1984
TYPE OF DRINKING WATER SUPPLY HITEI	
TARGET POPULATION WITHIN A 3-MILE R (Approximately 4,400).	ADIUS: Town of Frisco, Texas
RECORTENDATIONS: X R.F.1.	I.M. Ho Further Action under RFA
(Indicate only one	unless I.M. is marked)
<u>x</u> 3004	(u) 3007
Possible Enforcement	Action:3008(a)3008(h)
Form Rev. 19/6/87	9338745

9338745

A. HUNDER OF SIMU(s)/AOC(s) INVESTIGATED DURING THE PR/VSI: 11

1. NUMBER OF SWAU(s) INVESTIGATED DURING THE PR/VSI: 11

	LIST OF SURI	EEGULATED BY RCRA* (SUBTITLE C)	STATUS**
1)	Container Storage Area (SWHU 01)	Y	A
2)	Raw Haterial Storage Bldg. (SWRU 82)	Ą	A
3)	Outside Raw Materiel Storage Bldg. (SHMU 03)	e Y	Ą
4)	Slag Landfill (SUMU 04)	預	· A
5)	North Disposal Area (Simu Di	5) #	. 1
5)	South Disposal Area (SWAU CA	6) R	I
7)	Product Waste Piles (Samu O	7) Y	I
8)	Wastewater Pretreatment Univ	t H	A
9)	Stewart Creek (SUSAU 09)	į į	1
10)	Old Drag Storage Area (SENU	10) N	I
	Stewart Creek Sediment Dred Wasta Pile (SEMU 11)		I

2. AREA(s) OF CONCERN: 0

Y-Yes, H-No

^{**} Active, Inactive, Closed (A, I, & C)

. SAMPLING VISIT

SMHU OR AOC	SAMPLING LOCATION	SAMPLE/MEDIA	SAMPLE TYPE (GRAB, COMPOSITE, ETC)	PARAMETERS	RESULTS
181U 09	Stewart Creek	IN17443/Sediment	Grab		EP Tox Pb 9,650 ug/1 EP Tox Cd 125 ug/1
					169 69/1
					3
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C. MUMBER SHAU(s) TO BE INCLUDED IN THE REI:

1. HR	BER OF SHAU(s)	AT WHICH RELEAS	ES HAVE BEER IDENTIFIED: 3
LIST OF	. इ.स.च	RELEASE TO	HOTED DOCUMENTATION OF RELEASE
1) Horth(SBAU(Disposal Area DS)	Soil, GW, SW	The unit is a below grade landfill that managed battery case chips. Iron oxide slag, and municipal refuse. It is contructed with in situ clay below grade and disturbed and recompacted clay above grade. The cap is at least two feet thick and seeded with berouda and winter rye grasses. Battery case chips are surfacing through the cap.
. d			Four groundwater monitoring wells indicate that a release of lead and cadmium to groundwater has occurred from the unit. Soil dredgings of contaminated sediments
			from Stewart Creek were piled onto this unit. EP texts lead may threaten surface water. The groundwater monitoring system
			appears to be inadequate for the unit. A concrete sump collects leachate from the unit and discharges into Stewart Creek. The leachate is contaminated with lead
			and cadmium (0.05 ug/ml Cd; 0.3 ug/ml Pb; pH 7.7) according to a sample taken 1/6/87.
2) South (SWHU (Disposal Area 16)	Soil, GY	The landfill was used to dispose of battery chips and iron oxide. The unit is capped with 1.5 feet to 5 feet of compacted native clay and seeded with bermuda grass. Battery case chips are surfacing in the landfill. Five groundwater monitoring wells surround the unit. Lead and cadmium releases to the groundwater appear to have occurred from the landfill. The

3) Stewart Creek (SWMU 09)

So11, SH

The creek received lead and cadmium contaminated stormeater. On January 6, 1987, samples of reinwater were analyzed showing 0.09 ug/ml to 0.21 ug/ml Cd; 4.7 ug/ml to 13.4 ug/ml Pb; and 6.5 to 6.6 pH. THC issued an Agreed Order on March 17, 1987,

groundwater monitoring system appears to be inadequate for the

unit.

RELEASE TO

NOTED DOCUMENTATION OF RELEASE

for the removal of contaminated sodiments from the creek. A sediment sample taken September 17, 1987, IN 17443, shows EP Tox Pb 9,650 ug/l and EP Tox Cd 125 ug/l. During the VSI, the stream was noted to be reddish brown from iron oxide slag.

2. HUMBER OF SHAU AT WHICH A RELEASE IS HIGHLY POSSIBLE: 4

LIST OF SKHU

MEDIA

RATIONALE

1) Container Storage Area (SWMU 01)

5o11, SH

The unit is an 8 inch thick concrete pad with a 14 inch concrete curb on the southwest and northeast boundaries. The pad is not covered. Stormwater run on controls do not exist at this unit. During the VSI, spent battery casings were observed to be damaged and open and many of them were stored off the pad on bere soil. The concrete pad is exposed to sulfuric acid leaking from the batteries.

2) Raw Haterial Storage 81dg. (SWNU 02) Air

Flue dust, recycled components salvaged from battery breaking operation, and miscellaneous containerized lead wastes are located inside the enclosed building that has a concrete floor and a ten foot high concrete wall. A six foot steel extension is built above the concrete wall. TWC notified the company on October 7, 1987 that the waste streams menaged in this unit are considered to be "commodity-like" and are exempt from RCKA permitting standards. Leadcontaminated particulate material may be blown from the building through the west entrance.

3) Slag Landfill (SMMU 84) Soil, GH, SH

The landfill is below grade and manages iron exide slag. It is currently 1/3 acre but expansion to 4.2 acres is planned. The unit will expand into a drainage with intermittent water flow and be adjacent to an inactive municipal landfill. Sample analyses of slag deposited in the unit between December 1980 and December 1985 were very variable with concentrations of lead ranging from non-detectable levels to 4.1 ppm. The landfill has the potential for groundwater contamination once it is expanded because of the possibility of acetic acid and citric acid leaching into the slag waste from the municipal landfill. Waste slag is surfacing through the soil cover in some areas of the unit.

4) Product Waste Files (SWHU 07)

So11, 5H

The waste piles were used to store battery chips and battery cases, which contained lead and cadmium. The waste piles were located on an above grade concrete surface. It appears that the stormater containment system was insufficient to contain large stores and releases have contain into Stewart Creek, resulting in the dredging of the creek.

3. HUMBER OF SMMU THERE A DETERMINATION OF RELEASE CAN NOT BE MADE DUE TO LACK OF INFORMATION: 2

LIST OF SHAU

া) Old Drum Storage Area (Sয়েংও 10)

2) Stewart Greek Sediment Dredging Waste Pile (Samu 11)

RATIONALE

The unit was approximately 1/4 acre and it does not have any containment features. The area stored lead contaminated empty containers which collected stormwater. The water was disposed in the drum storage area. The company removed contaminated soil to a depth of four feet in an 1/4 acre area and they stated that no contaminated soil remains. Battery chips were noted to be on the surface during the VSI. Two soil samples were collected during the VSI, however the results of the samples have not been received.

The unit is approximately 1/2 acre in size and is located on the closed. North Disposal Area (SWHU 05). The waste pile contains lead contaminated sediments from Stewart Creek (SWHU 09). The waste pile is about ten feet high and it is not capped. He dikes are located at this unit. The company has submitted analytical data from the waste pile and has requested that the waste be classified as a Class III waste. The unit has EP Toxic lead in it. Split sampling of the material will be conducted for waste characterization by December 15, 1987.

D. HUMBER OF SHAU FOR WHICH AND RFI IS NOT RECOMMENDED:

LIST OF SHIP

1) Outside Raw Haterial Storage Bldg. (SIMU 03)

RATIONALE

The unit is a concrete slab bounded on three sides by six foot concrete walls. A four tach concrete berm is located along the 4th side of the unit. A roof to prevent rainfall from entering the unit and a dike system to contain sternwater are being constructed. The unit manages recyclable lead plates, lead oxide paste, and legs. TWC considers this unit to manage "commodity-like" waste streams and notified the company that the unit was exempt from RCRA permitting standards. No evidence of releases was observed during the VSI.

2) Wastewater Pretreatment Unit (SWMU 08)

The unit consists of open-top stainless steel tanks below grade and on ground. The tanks contain lead, cadmium, and sulfuric acid. A roof protects the tanks from stormwater and a concrete secondary containment system surrounds the unit. The facility has changed treatment methods in accordance with THC's agreed order of March 17, 1987. He evidence of release was noted during the VSI.

E. SUPPLEMENTAL INFORMATION ON RCRA REGULATED UNITS: 0
(Describe any problems identified or suspected from regulated units including identified releases to groundwater)

II. FINDINGS

A. RECOMMENDATIONS:

STATE

- a) SIMUS WHICH HAVE NOT HAG A RELEASE
 - 1) Outside Ray Material Storage Bldg. (SWHU 03)

2) Product Haste Piles (SWHU 07)

- 3) Wastewater Pretreatment Unit (SWHU CB)
- b) SHAUS WHICH REQUIRE FURTHER EVALUATION
 - 1) Slag Landfill (Statu 04)
 - 2) North Olsposal Area (SWHU 05)
 - 3) South Disposal Area (SMHU 06)
 - 4) Stewart Croek (SMNU 09)
 - 5) Old Brum Storage Area (SIMU 10)
 - 6) Stewart Creek Sediment Dredging Waste Pile (SWMU 11)
- c) SWHUS WHICH HAVE HAD A RELEASE
 - 1) Container Storage Area (SMIU 01)
 - 2) Raw Haterial Storage 81dg. (SWNU 02)
 - 3) North Disposal Area (SMMU 05)
 - 4) South Disposal Area (SERU 06)
 - 5) Stewart Creek (SWHU 09)

EPA

- a) RFI
 - 1) Container Storage Area (SMMU 01)
 - 2) Rew Material Storage Bldg. (SKHU G2)
 - 3) Slag Landfill (Simu 04)
 - 4) Rorth Disposel Area (SHMU 05)
 - 5) South Disposal Area (SMMU G6)
 - 6) Product Waste Piles (SWHU 07)
 - 7) Stewart Creek (SWNU 09)
 - 8) Old Drum Storage Area (SMNU 10)
 - 9) Stewart Creek Sediment Dredging Waste Pile (SWHU 11)
- b) Sumus which a RFI is not recommended
 - 1) Outside Raw Material Storage Bldg. (5%HU 03)
 - 2) Rastewater Pretreatment Unit (SWKU 98)

B. ADDITIONAL COMMENTS:

1) Raw Naterial Storage 61dg. (SMMU 02)-Unit does not meet the definition of a tank. The Part 8 application lists the unit as a tank.

CONCUR: Lydia M. Boads Clista DATE: December 28, 1987